

Catalog No.: RP03567 **Recombinant**

Species	Gene ID	Swiss Prot
Mouse		P21981

N-His

TGM2; tTG; tTGase; TGC; TGase C; TGase II; TG2; G-ALPHA-h; GNAH; HEL-S-45; TGase-2; TGase-H; TGCGNAH

Source	Purification
<i>E. coli</i>	> 95% as determined by HPLC

78.2 kDa 79 kDa

< 1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Transglutaminase 2 (TGM2) is a member of the transglutaminase family, and it is reported to be associated with chemoresistance in various types of cancer. TGM2 was demonstrated to affect the chemosensitivity of osteosarcoma cells via regulation of the activation of mitogen-activated protein kinase and AKT serine/threonine kinase pathways.

Recombinant Mouse TGM2 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ala2-Ala686) of Mouse TGM2 (Accession #) fused with a His tag at the N-terminus.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

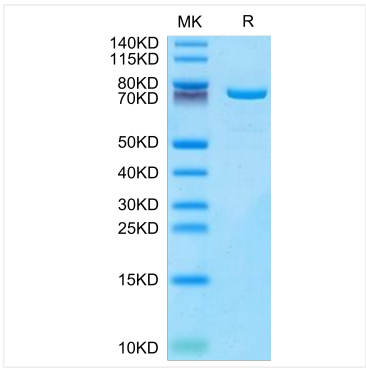
For your safety and health, please wear a lab coat and disposable gloves for handling.

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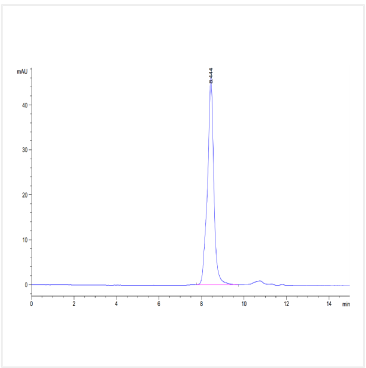
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Validation Data



Mouse TGM2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



The purity of Mouse TGM2 is greater than 95% as determined by SEC-HPLC.